Anti-Phospho-ATF-2 (Thr69/Thr71) /ATF-7 (Thr51/Thr53) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P109019

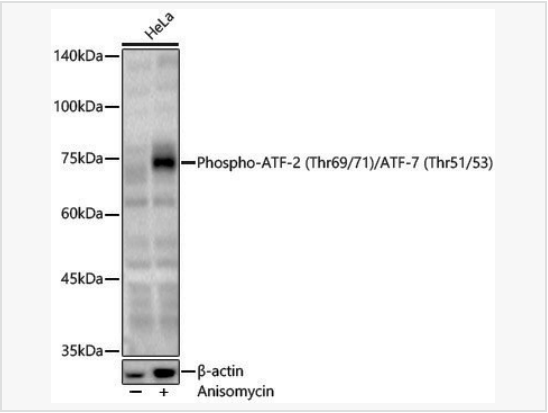
Product Information

Application	WB, ELISA
Reactivity	Human
Dilution	WB 1:500~1:1000
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around Thr69/71 and Thr51/53 of human Phospho-ATF-2/ATF-7.
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-ATF-2 (Thr69/Thr71) /ATF-7 (Thr51/Thr53) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	HB16; CREB2; TREB7; CREB-2; CRE-BP1; ATFA; Phospho-ATF-2 (Thr69/71)/ATF-7 (Thr51/53).
Calculated MW	Calculated MW: 54 kDa/51 kDa; Observed MW: 75 kDa
Uniprot ID	P15336, P17544
Gene ID	1386, 11016
Background	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene,Enables several functions, including DNA-binding transcription repressor activity, RNA polymerase II-specific; mitogen-activated protein kinase binding activity; and transcription coactivator binding activity. Involved in negative regulation of transcription by RNA polymerase II and positive regulation of transcription by RNA polymerase II. Located in nucleoplasm. Biomarker of colorectal cancer.

Validation Images



Western blot analysis of lysates from HeLa cells, using Phospho-ATF-2 (Thr69/71)/ATF-7 (Thr51/53) Rabbit pAb (P109019) at 1:600 dilution. HeLa cells were treated by Anisomycin (25 μg/mL) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 90s.